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PTO/SB/21 (6-98) (modified)  
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2811

<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	<b>Application Number</b>	09/739,589	
	<b>Filing Date</b>	JUL 11 2003 12/15/00	
	<b>First Named Inventor</b>	Steven Teig	
	<b>Group Art Unit</b>	2811	
	<b>Examiner Name</b>	A.M. Thompson	
<b>Total Number of Pages in This Submission</b>	*	<b>Attorney Docket Number</b>	SPLX.P0014

Enclosures (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declarations(s) <input type="checkbox"/> Preliminary Amendment <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Request to Rescind Previous Non-Publication Request <input checked="" type="checkbox"/> Information Disclosure Statement and PTO-1449 Certified Copy of Priority Documents <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter  <input checked="" type="checkbox"/> Other Enclosures (Listed Below): Postcard 53 References Credit Card Payment Form
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<b>SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT</b>		
<b>Firm Or Individual name</b>	Mani Adeli, Reg. No. 39,585 of Stattler Johansen & Adeli LLP	
<b>Signature</b>		
<b>Date</b>	March 17, 2003	

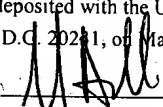
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PATENT  
Docket No. SPLX.P0014

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Mani Adeli

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Steven Teig

Serial No.: 09/739,589

Filing Date: 12/15/00

For: METHOD AND APPARATUS FOR  
PRE-COMPUTING AND USING  
MULTIPLE PLACEMENT COST  
ATTRIBUTES TO QUANTIFY THE  
QUALITY OF A PLACEMENT  
CONFIGURATION WITHIN A  
PARTITIONED REGION

**INFORMATION DISCLOSURE  
STATEMENT UNDER 37 C.F.R. § 1.97**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents are also submitted herewith. The Examiner is requested to make these documents of record.

This Information Disclosure Statement is submitted: After receipt of a first Office Action on the merits but before a final Office Action or Notice of Allowance. Applicants would

appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

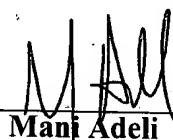
This Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

The requisite fee for this IDS is enclosed. In the unlikely event that the transmittal letter is separated from this document and the Patent Office determines that an extension and/or other relief is required, applicant petitions for any required relief including extensions of time and authorizes the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 50-1128 referencing SPLX.P0014. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: March 17, 2003

Respectfully submitted,

By:



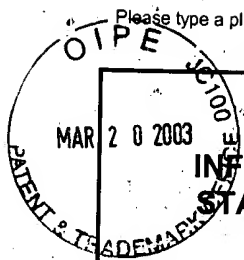
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Substitute for form 1449A/PTO				Application Number	09/739,589	<b>RECEIVED</b> JUL 11 2003 OFFICE OF PETITIONS
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Filing Date	12/15/00	
				First Named Inventor	Steven Teig	
				Group Art Unit	2811	
Examiner Name				A.M. Thompson		
Sheet	1	of	1	Attorney Docket Number	SPLX.P0014	

### U.S. PATENTS RELATED TO THE PRESENT APPLICATIONS

Examiner* Initials	Cite No.	U.S. Patent Document Number	Kind Code* (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Relation to Present Application
	1.	6,516,455	B1	Teig, et al.	02-04-03	

### U.S. PATENT DOCUMENTS

Examiner* Initials	Cite No.	U.S. Patent Document Number	Kind Code* (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	2.	2001/ 0003843	A1	Scepanovic et al.	06-14-01	
	3.	4,615,011		Linsker	09-30-86	
	4.	5,097,422		Corbin, II et al.	03-17-92	
	5.	5,532,934		Rostoker	07-12-96	
	6.	5,566,078		Ding et al.	10-15-96	
	7.	5,578,840		Scepanovic et al.	11-26-96	
	8.	5,634,093		Ashida et al.	05-27-97	
	9.	5,636,125		Rostoker et al.	06-03-97	
	10.	5,650,653		Rostoker et al.	07-22-97	
	11.	5,742,086		Rostoker et al.	04-21-98	
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	13.	5,777,360		Rostoker et al.	07-07-98	
	14.	5,811,863		Rostoker et al.	09-22-98	
	15.	5,822,214		Rostoker et al.	10-13-98	
	16.	5,859,449		Kobayashi et al.	01-12-99	
	17.	5,898,597		Scepanovic et al.	04-27-99	
	18.	5,973,376		Rostoker et al.	10-26-99	
	19.	6,035,108		Kikuchi	03-07-00	
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	21.	6,068,662		Scepanovic et al.	05-30-00	
	22.	6,123,736		Pavisic et al.	09-26-00	

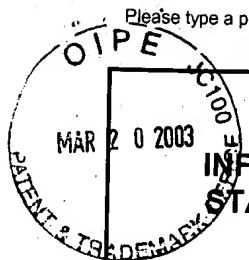
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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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				Group Art Unit	2811
				Examiner Name	A.M. Thompson
Sheet	2	of	2	Attorney Docket Number	SPLX.P0014

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	23.	6,134,702		Scepanovic et al.	10-17-00	
	24.	6,155,725		Scepanovic et al.	12-05-00	
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	27.	6,230,306	B1	Raspopovic et al.	05-08-01	
	28.	6,247,167	B1	Raspopovic et al.	06-12-01	
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	30.	6,260,179	B1	Ohsawa et al.	07-10-01	
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	35.	6,401,234	B1	Alpert et al.	06-04-02	
	36.	6,405,358	B1	Nuber	06-11-02	
	37.	6,412,097	B1	Kikuchi et al.	06-25-02	
	38.	6,436,804	B2	Igarashi et al.	08-20-02	
	39.	6,463,575	B1	Takahashi	10-08-02	

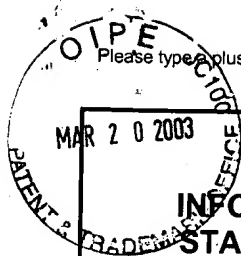
FOREIGN PATENT DOCUMENTS								
Examiner* Initials	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code (if known) <sup>5</sup>				
	40.	JP	64-15947		Ouchi	01-19-89		

NON PATENT LITERATURE DOCUMENTS					
Examiner* Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>6</sup>
	41.	A.H. Farrahi et al., Quality of EDA CAD Tools: Definitions, Metrics and Directions, Quality Electronic Design, 2000, Proceedings of the first International Symposium on March 2000, pp 395-405.			

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			<b>Examiner Name</b>	A.M. Thompson	
<b>Sheet</b>	3	of	3	<b>Attorney Docket Number</b>	SPLX.P0014

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42.	C. Chiang, et al., Wirability of Knock-Knee Layouts with 45° Wires, IEEE Transactions on Circuits and Systems, Vol. 38, Issue 6, pp 613-624, June 1991.	
43.	J. Su et al., Post-Route Optimization for Improved Yield Using Rubber-Band Wiring Model, 1997 International Conference on Computer-Aided Design, pp 700-706, November 1997.	
44.	J. Vicente, RSR: A New Rectilinear Steiner Minimum Tree Approximation for FPGA Placement and Global Routing, Proceedings of the 24 <sup>th</sup> Euro Micro Conference, pp 192-195, August 1998.	
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49.	P. Dood, et al. A Two-Dimensional Topological Compactor with Octagonal Geometry, 28 <sup>th</sup> ACM/IEEE Design Automation Conference, pp 727-731, July 1991.	
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52.	S. Dutt, et al., Probability-Based Approaches to VLSI Circuit Partitioning, IEEE Trans. on Computer-Aided Design of IC's and Systems, Vol. 19, No. 5, May 2000, pp-534-549.	
53.	Y. Sekiyama et al., Timing-Oriented Routers for PCB Layout Design of High-Performance Computers, International Conference on Computer Aided Design, pp 332-335, November 1991.	

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